Signature Page

Signed By

MICHAEL HIXON

Organization

OG AND E

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Agreement #3

I agree that use of this System combined with the user's login and password to sign the submission document constitutes an electronic signature equivalent to my written signature. I have reviewed the electronic report being submitted in its entirety and agree to the validity, accuracy, and completeness of the information contained within it to the best of my knowledge. I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Agreement #4

I am free to discontinue this transaction by selecting "Cancel"; otherwise, the records will be submitted to the DEQ, and the transaction will be complete.

Confirmation Number

S20220325135245-F1211-R2021

2021 Emissions Inventory Report OG AND E (330)

Emissions Summary for SOONER GENERATING STATION (1211)

CRITERIA AIR POLLUTANT (CAP) EMISSIONS TOTALS				
Pollutant Code/CAS#	Pollutant Name	Total Emissions (tons)*		
CO	Carbon Monoxide	1,470.873		
NOX	Nitrogen Oxides (NOx) expressed as NO2	2,198.867		
PM10-PRI	PM10 - Primary (Filterable + Condensible)	561.969		
PM25-PRI	PM2.5 - Primary (Filterable + Condensible)	470.486		
SO2	Sulfur Oxides (SOx) expressed as SO2	572.219		
VOC	Volatile Organic Compounds (VOCs)	57.321		

HAZARDOUS AIR POLLUTANT (HAP) and/or OTHER POLLUTANT EMISSIONS TOTALS Pollutant Code/CAS# Pollutant Name Is VOC/PM? **Total Emissions** (tons)* 7439921 PM0.013 Lead (CAP-HAP) VOC 121142 2,4-Dinitrotoluene (HAP) 0.045 75070 Acetaldehyde (HAP-TOX) VOC 0.05 98862 VOC 0.033 Acetophenone (HAP) 107028 VOC 0.058 Acrolein (HAP) 107131 VOC Acrylonitrile (HAP-TOX) 0.184 7440360 Antimony (HAP) PM 0.005 7440382 Arsenic (HAP-TOX) PM0.007 71432 Benzene (including benzene from gasoline) (HAP-TOX) VOC 0.033 92875 Benzidine (HAP) VOC 0.047 100447 Benzyl chloride (HAP) VOC 0.032 7440417 PMBeryllium (HAP-TOX) 0.001 92524 Biphenyl (HAP) VOC 0.002 117817 Bis(2-ethylhexyl)phthalate (DEHP) (HAP) VOC 0.047 7440439 Cadmium (HAP-TOX) PM0.002 75150 Carbon disulfide (HAP) VOC 0.028 56235 Carbon tetrachloride (HAP-TOX) VOC 0.003 108907 Chlorobenzene (HAP) VOC 0.002 VOC 67663 Chloroform (HAP-TOX) 0.003

Pollutant Code/CAS#	Pollutant Name	Is VOC/PM?	Total Emission (tons)*
7440473	Chromium (HAP-TOX)	PM	0.026
7440484	Cobalt (HAP)	PM	0.007
98828	Cumene (HAP)	VOC	0.002
132649	Dibenzofuran (HAP)	VOC	0.047
84742	Dibutylphthalate (HAP)	VOC	0.012
131113	Dimethyl phthalate (HAP)	VOC	0.015
100414	Ethyl benzene (HAP-TOX)	VOC	0.002
106934	Ethylene dibromide (Dibromoethane) (HAP)	VOC	0.008
107062	Ethylene dichloride (1,2-Dichloroethane) (HAP-TOX)	VOC	0.006
50000	Formaldehyde (HAP-TOX)	VOC	0.116
110543	Hexane (HAP)	VOC	0.037
7647010	Hydrochloric acid (HAP)	PM	0.98
7664393	Hydrogen fluoride (Hydrofluoric acid) (HAP)	PM	3.835
7439965	Manganese (HAP-TOX)	PM	0.037
7439976	Mercury (HAP-TOX)	PM	0.015
71556	Methyl chloroform (1,1,1-Trichloroethane) (HAP)	-	0.004
74884	Methyl iodide (lodomethane) (HAP)	VOC	0.007
108101	Methyl isobutyl ketone (Hexone) (HAP)	VOC	0.149
75092	Methylene chloride (Dichloromethane) (HAP-TOX)	-	0.317
91203	Naphthalene (HAP)	VOC	0.005
7440020	Nickel (HAP-TOX)	PM	0.029
95476	o-Xylene (HAP)	VOC	0.003
108952	Phenol (HAP)	VOC	0.032
123386	Propionaldehyde (HAP)	VOC	0.083
100425	Styrene (HAP)	VOC	0.002
7664939	Sulfuric acid (including acid mist expressed as H2SO4) (OTH)	PM	0.058
127184	Tetrachloroethylene (Perchloroethylene) (HAP)	-	0.001
108883	Toluene (HAP-TOX)	VOC	0.027
79016	Trichloroethylene (HAP)	VOC	0.004
1330207	Xylenes (isomers and mixture) (HAP)	VOC	0.006

2021 Emissions Inventory Report

OG AND E (330)

SOONER GENERATING STATION (1211)

Status Year:

COMPANY

Mailing Address: PO BOX 321 MC610

OKLAHOMA CITY, OK 73102-0321

Contact Phone: (405) 553-3000 **Contact FAX:** (553) 553-3689

FACILITY

Facility Identifier: 1211

Facility Name: SOONER GENERATING STATION

Status: OP - Operating

NAICS: 221112 (Primary) - Fossil Fuel Electric Power Generation

Comments:

FACILITY - ADDRESS

Location Address: 10800 COUNTY RD 230 RED ROCK, OK 74651

FACILITY - LOCATION

Latitude (decimal degress): 36.45183

Collection Method: 014 - GPS code measurements (pseudo range) differential (DGPS)

Geographic Reference Point: 101 - Entrance Point of a Facility, System, or Station

Longitude (decimal degress): -97.06352

Data Collection Date: 07/03/2008

Geodetic Reference System: 003 - World Geodetic System of 1984

FACILITY - ADDITIONAL INFORMATION

Field Name	Field Value
Oil & Gas Facility Category	Not Applicable
Permit Number(s)	2019-0895-ARR4,2016-0552-TVR3 M4,2010-338-C M-3,2010-338-C M-1 PSD,2003-274-C M-3
API/US Well Number	
SIC Number	4911
TRI Identifier (ID)	74651SNRGNHWY15

RELEASE POINTS	RELEASE POINTS							
ID	Туре	Description	Status	Details	Location			
9953	Vertical	Bectric Power Generation Boiler - Unit NO 1	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location			
9954	Vertical	Bectric Power Generaton Boiler - Unit NO 2	OP in 2007	Height: 500.0 FEET, Shape: Circular, Diameter: 20.0 FEET, Temperature: 264.0 F, Flow Rate: 1,917,770.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location			
9955	Fugitive Area	Coal Screening and Handling	OP in 2002	Fugitive Height: 20.0 FEET, Fugitive Width: 195.0 FEET, Fugitive Length: 195.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location			
21424	Vertical	Auxiliary Boiler Stack	OP in 2002	Height: 109.0 FEET, Shape: Circular, Diameter: 2.0 FEET, Temperature: 1,746.0 F, Flow Rate: 430.0 ACFM, Velocity: 2.281 FPS	Uses Facility Site Location			
41838	Fugitive Area	Coal Pile	OP in 2007	Fugitive Height: 48.0 FEET, Fugitive Width: 1,474.0 FEET, Fugitive Length: 1,474.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location			
47152	Vertical	NO 1 Emergency Generator	PS in 2007	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity:	Uses Facility Site Location			
47153	Vertical	NO 2 Emergency Generator	OP in 2007	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity:	Uses Facility Site Location			
47237	Vertical	Emergency Diesel Fire Pump	OP in 2007	Height: 9.0 FEET, Shape: Circular, Diameter: 0.66 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity:	Uses Facility Site Location			
50627	Vertical	Generac Model QT025A	OP in 2011	Height: 3.0 FEET, Shape: Circular, Diameter: 0.12 FEET, Temperature: 975.0 F, Flow Rate: 220.0 ACFM, Velocity: 324.204 FPS	Uses Facility Site Location			
138500	Vertical	Activated Carbon Silo	OP in 2016	Height: 50.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 75.0 F, Flow Rate: , Velocity: 21.0 FPS	Uses Facility Site Location			
138518	Fugitive Area	Activated Carbon Handling Road	OP in 2016	Fugitive Height: 1.0 FEET, Fugitive Width: 932.0 FEET, Fugitive Length: 932.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location			
205153	Vertical	New Emergency Generator 1 - Caterpillar C15	OP in 2021	Height: 13.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 440.0 F, Flow Rate: 1.0 ACFM, Velocity: 1.27324 FPM	Uses Facility Site Location			

CONTROL DE	CONTROL DEVICES						
ID	Description	Status	Control Measure	Controlled Pollutants			
123874	Fabric Filter / Baghouse Primary 100 90	OP	127 - Fabric Filter / Baghouse	FM10-PRI-PM10 - Primary (Filterable + Condensible): 90.0%			
123875	Fabric Filter / Baghouse Primary 100 99	OP	127 - Fabric Filter / Baghouse	PM10-PRI-PM10 - Primary (Filterable + Condensible): 99.0%, PM25-PRI-PM2.5 - Primary (Filterable + Condensible): 99.0%			
123876	Bectrostatic Precipitator - Dry (DESP) Primary 100 99.5	OP	128 - Electrostatic Precipitator - Dry (DESP)	PM10-PRI-PM10 - Primary (Filterable + Condensible): 99.5%, PM25-PRI-PM2.5 - Primary (Filterable + Condensible): 99.5%			
123877	Activated Carbon Injection (ACI) Primary 100 90	OP	207 - Activated Carbon Injection (ACI)	7439976-Mercury: 90.0%			
123878	Flue Gas Desulfurization (FGD) Primary 100 95	OP	215 - Flue Gas Desulfurization (FGD)	SO2-Sulfur Oxides (SOx) expressed as SO2: 95.0%			
123879	Dust Suppression Primary 100 75	OP	217 - Dust Suppression	PM10-PRI-PM10 - Primary (Filterable + Condensible): 75.0%, PM25-PRI-PM2.5 - Primary (Filterable + Condensible): 75.0%			
123880	Dust Suppression Primary 100 85	OP	217 - Dust Suppression	PV25-PRI-PM2.5 - Primary (Filterable + Condensible): 85.0%			

EMISSION UNITS	MISSION UNITS						
ID	Туре	Description	Status	Details			
9953	100 - Boiler	Bectric Power Generation Boiler Combustion Engineering - Unit NO 1	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR			
9954	100 - Boiler	Bectric Power Generation Boiler Combustion Engineering - Unit NO 2	OP in 2002	Operation Start: , Design Capacity: 5,116.0 E6BTU/HR			
9955	760 - Conveyor	Coal Crushing, Screening and Handling	OP in 2002	Operation Start: , Design Capacity:			
21130	100 - Boiler	Auxiliary Boiler	OP in 2003	Operation Start: , Design Capacity: 33.0 E6BTU/HR			
42026	785 - Open Storage File	Coal Pile	OP in 2007	Operation Start: , Design Capacity:			
47366	160 - Reciprocating IC Engine	NO 1 Emergency Generator GM - Detroit Serial 73099	PS in 2007	Operation Start: , Design Capacity: 750.0 HP			
47367	160 - Reciprocating IC Engine	NO 2 Emergency Generator GM-Detroit Serial NO 73100	OP in 2007	Operation Start: , Design Capacity: 750.0 HP			
47471	160 - Reciprocating IC Engine	Emergency Diesel Fire Pump Cummins VT1710F Serial 44932	OP in 2007	Operation Start: , Design Capacity: 700.0 HP			
50942	160 - Reciprocating IC Engine	Generac Model QT025A	OP in 2007	Operation Start: , Design Capacity: 43.29 HP			
138766	780 - Silo	Activated Carbon Handling Equiptment	OP in 2016	Operation Start: , Design Capacity:			
138775	390 - Other fugitive	Activated Carbon Handling Road Travel	OP in 2016	Operation Start: , Design Capacity:			
205940	160 - Reciprocating IC Engine	New Emergency Generator 1 - Caterpillar C15	OP in 2021	Operation Start: , Design Capacity: 762.0 HP			

UNIT PROCESSES	JNIT PROCESSES					
Emission Unit ID	Unit Process ID	SCC	Description	Status	Details	
9953 Bectric Power Generation Boiler Combustion Engineering - Unit NO 1	49748	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP	Control Approach Controlled?: Yes Description: Bectrostatic Precipitator - Dry (DESP) and other measures Control Devices: 123876-Bectrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Rue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 9953 - Bectric Power Generation Boiler - Unit NO 1: 100.0%	
9953 Bectric Power Generation Boiler Combustion Engineering - Unit NO 1	49749	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 9953 - Bectric Power Generation Boiler - Unit NO 1: 100.0%	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit NO 2	49750	10100226	Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	OP .	Control Approach Controlled?: Yes Description: Electrostatic Precipitator - Dry (DESP) and other measures Control Devices: 123876-Electrostatic Precipitator - Dry (DESP) Primary 100 99.5, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123877-Activated Carbon Injection (ACI) Primary 100 90, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123878-Flue Gas Desulfurization (FGD) Primary 100 95, Seq: 3, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 9954 - Electric Power Generaton Boiler - Unit NO 2: 100.0%	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit NO 2	49751	10100501	Distillate Oil - Grades 1 and 2 - Boiler	OP .	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 9954 - Bectric Power Generaton Boiler - Unit NO 2: 100.0%	
9955 Coal Crushing, Screening and Handling	49752	30510103	Bulk Materials Conveyors - Coal	OP .	Control Approach Controlled?: Yes Description: Dust Suppression and other measures Control Devices: 123874-Fabric Filter / Baghouse Primary 100 90, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 123880-Dust Suppression Primary 100 85, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 9955 - Coal Screening and Handling: 100.0%	

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
21130 Auxiliary Boiler	119495	10200502	Distillate Oil - 10-100 Million BTU/hr **	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 21424 - Auxiliary Boiler Stack: 100.0%
42026 Coal Pile	149891	30510303	Bulk Materials Open Stockpiles - Coal	OP .	Control Approach Controlled?: Yes Description: Dust Suppression Control Devices: 123879-Dust Suppression Primary 100 75, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41838 - Coal File: 100.0%
47366 NO 1 Emergency Generator GM- Detroit Serial 73099	156028	20200401	Diesel - Large Bore Engine	PS in 2019	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 47152 - NO 1 Emergency Generator: 100.0%
47367 NO 2 Emergency Generator GM- Detroit Serial NO 73100	156029	20200401	Diesel - Large Bore Engine	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 47153 - NO 2 Emergency Generator: 100.0%
47471 Emergency Diesel Fire Pump Qummins VT1710F Serial 44932	156118	20200401	Diesel - Large Bore Engine	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 47237 - Emergency Diesel Fire Pump: 100.0%
50942 Generac Model QT025A	160549	20201001	Liquified Petroleum Gas (LPG) - Propane: Reciprocating	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 50627 - Generac Model QT025A: 100.0%
138766 Activated Carbon Handling Equiptment	259565	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 123875-Fabric Filter / Baghouse Primary 100 99, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 138500 - Activated Carbon Silo: 100.0%

Emission Unit ID	Unit Process ID	scc	Description	Status	Details
138775 Activated Carbon Handling Road Travel	259604	30510496	Bulk Materials Unloading Operation - Chemical: Specify in Comments	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 138518 - Activated Carbon Handling Road: 100.0%
205940 New Emergency Generator 1 - Caterpillar C15	334361	20200401	New Emergency Generator 1 - Caterpillar C15	OP in 2021	Control Approach Controlled?: No Description: Release Point Apportionment: 205153 - New Emergency Generator 1 - Caterpillar C15: 100.0%

PROCESS EMISSION	ROCESS EMISSIONS						
Emission Unit ID	Unit Process ID	Throughput	Operations				
Generation Boiler Combustion	49748 Subbituminous Coal, Pulverized - Boiler, Dry Bottom Tangential-fired	Annual Throughput: 825,408.0 TONS (Coal) (Input)	Average Hours/Day: 19.8, Days/Week: 5.0, Weeks/Year: 36.0 Actual Hours/Year: 3,563.5 Seasonal Operations: Dec-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-Nov: 34.6%				

Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		1_0 - Continuous Emission Monitoring System (CEVS)	875.752
		10_0 - OK DEQ Approved Method (no EF)	0.0063
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	
		1_0 - Continuous Errission Monitoring System (CEVS)	938.328
0.020156	E6BTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	145.7394512
0.018	E6BTU - MILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	127.0556477
		1_0 - Continuous Emission Monitoring System (CEVS)	277.379
0.06	TON-TONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	24.76224
Overall Control Efficiency:	0.0%	·	
		10_0 - OK DEQ Approved Method (no EF)	0.0195
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Rants Software	
		10_0 - OK DEQ Approved Method (no EF)	0.0217
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	
		10_0 - OK DEQ Approved Method (no EF)	0.01445
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	
		10_0 - OK DEQ Approved Method (no EF)	0.0253
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	•
		10_0 - OK DEQ Approved Method (no EF)	0.0795
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	
		10_0 - OK DEQ Approved Method (no EF)	0.002055
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	
		10_0 - OK DEQ Approved Method (no EF)	0.003215
Emission Comment: Emiss	ions Calculated with EPRI TRI Fo	or Power Plants Software	•
		10_0 - OK DEQ Approved Method (no EF)	0.01445
Emission Comment: Emiss	ions Calculated with EPRI TRI Fo	or Power Plants Software	•
		10_0 - OK DEQ Approved Method (no EF)	0.02025
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	•
		10_0 - OK DEQ Approved Method (no EF)	0.01375
Emission Comment: Emiss	ions Calculated with EPRI TRI Fo	or Power Plants Software	•
		10_0 - OK DEQ Approved Method (no EF)	0.000349
Emission Comment: Emiss	ions Calculated with EPRITRIFO	or Power Plants Software	!
		10_0 - OK DEQ Approved Method (no EF)	0.00087
Emission Comment: Emiss	ions Calculated with EPRITRIFO		
		10_0 - OK DEQ Approved Method (no EF)	0.02075
Emission Comment: Emiss	ions Calculated with EPRITRIFO		
			0.000945
	Emission Comment: Erriss 0.020156 0.018 0.06 Overall Control Efficiency: Emission Comment: Erriss	Emission Comment: Emissions Calculated with EMR TRIFE 0.020156	1_0 - Continuous Entission Monitoring System (CEMs)

Pollutant	Emissiace Progressions Rale Pated with TRIF or Power Cartal Safew Method	Estimated Emis. (Tons)
75150 - Carbon disulfide	10_0 - OK DEQ Approved Method (no EF)	0.0123
	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	
56235 - Carbon tetrachloride	10 0 - OK DEQ Approved Method (no EF)	0.001155
	Emission Comment: Emissions Calculated with EFRITRI For Power Rants Software	!
108907 - Chlorobenzene	10. 0 - OK DEQ Approved Method (no EF)	0.00101
	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	
67663 - Chloroform	10 0 - OK DEQ Approved Method (no EF)	0.001155
oroco androidin	Emission Comment: Emissions Calculated with EPRI TRI For Power Rants Software	0.001100
7440473 - Chronium	10 0 - OK DEQ Approved Method (no EF)	0.01135
7410473 - Gillottiditt	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	0.01133
7440404 Cohell		0.00005
7440484 - Cobalt	10_0 - OK DEQ Approved Method (no EF)	0.00295
	Emission Comment: Emissions Calculated with EPRI TRI For Power Rants Software	
98828 - Cumene	10_0 - OK DEQ Approved Method (no EF)	0.000795
	Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software	
132649 - Dibenzofuran	10_0 - OK DEQ Approved Method (no EF)	0.02025
	Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software	
84742 - Dibutylphthalate	10_0 - OK DEQ Approved Method (no EF)	0.0053
	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	
131113 - Dimethyl phthalate	10_0 - OK DEQ Approved Method (no EF)	0.0065
	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	
100414 - Ethyl benzene	10. 0 - OK DEQ Approved Method (no EF)	0.00101
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	
106934 - Ethylene dibromide (Dibrompethane)	10 0 - OK DEQ Approved Method (no EF)	0.003545
	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	
107062 - Ethylene dichloride (1,2-Dichloroethane)	10 0 - OK DEQ Approved Method (no EF)	0.002385
107 002 Englishe distribution (1,2 Eistribution and)	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	0.002000
50000 - Formaldehyde	10 0 - OK DEQ Approved Method (no EF)	0.0254
30000 - 1 Off Falderly de	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	0.0254
110543 - Hexane		0.0150
110543 - Hexane	10_0 - OK DEQ Approved Method (no EF)	0.0159
	Emission Comment: Emissions Calculated with EPRI TRI For Power Rants Software	
7647010 - Hydrochloric acid	10_0 - OK DEQ Approved Method (no EF)	0.4295
	Emission Comment: Emissions Calculated with Emil TRI For Power Rants Software. Previously a site specific emiss software. However, since the scrubbers are fully operational, the stack test was no longer representative. The progra acid calculator which shows the scrubber reduced emissions of HCI ~90%.	
7664393 - Hydrogen fluoride (Hydrofluoric acid)	10_0 - OK DEQ Approved Method (no EF)	1.665
	Emission Comment: Emissions Calculated with EFRI TRI For Power Plants Software	
7439965 - Manganese	10. 0 - OK DEQ Approved Method (no EF)	0.01635
	Emission Comment: Emissions Calculated with EPRITRI For Power Rants Software	<u> </u>
7439976 - Mercury	10_0 - OK DEQ Approved Method (no EF)	0.007
	Emission Comment: Emissions Calculated with EPRI TRI For Power Rants Software	1
71556 - Methyl chloroform (1,1,1-Trichloroethane)	10 0 - OK DEQ Approved Method (no EF)	0.00181
1 1000 Trough of Horizon Origina (1, 1, 1-11 follow occurring)	Emission Comment: Emissions Calculated with EFRI TRI For Power Rants Software	0.00101
74884 - Methyl iodide (lodomethane)		0.00311
74004 - WELLIYI IOUIUE (IOUOTTELLIBITE)	10_0 - OK DEQ Approved Method (no EF)	0.00311
400404 Mathedis about disease (III.	Emission Comment: Emissions Calculated with EPRI TRI For Power Plants Software	0.0045
108101 - Methyl isobutyl ketone (Hexone)	10_0 - OK DEQ Approved Method (no EF)	0.0645
	Emission Comment: Emissions Calculated with EFRI TRI For Power Plants Software	

	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
	75092 - Methylene chloride (Dichloromethane)				10_0 - OK DEQ Approved Method (no EF)	0.1375	
		Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	er Plants Software	•	
	91203 - Naphthalene				10_0 - OK DEQ Approved Method (no EF)	0.00226	
		Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	er Plants Software	•	
	7440020 - Nickel				10_0 - OK DEQ Approved Method (no EF)	0.0129	
		Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	er Plants Software	•	
	95476 - o-Xylene				10_0 - OK DEQ Approved Method (no EF)	0.001415	
		Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	er Plants Software		
	108952 - Phenol				10 0 - OK DEQ Approved Method (no EF)	0.01375	
		Emission Comment: Emissic	ns Calculat	ed with EPRITRI For Powe	_ :: ,		
	123386 - Propionaldehyde				10. 0 - OK DEQ Approved Method (no EF)	0.03615	
	120000 Tropic laudity up	Emission Comment: Emissic	ns Calculate	ed with FPRITRI For Powe		5.555.5	
	100425 - Styrene	10. 0 - OK DEQ Approved Method (no EF) 0.00094					
	39,000	Fmission Comment: Friesic	ns Calculat	ed with FPRITRI For Powe	 		
	7664939 - Sulfuric acid (including acid mist expressed as LPSM)						
	100-1000 Call allo acid (illicidating acid That expressed as 1 2004)					0.02000	
	127184 Totrachloroothylana (Parahloroothylana)	Linission Comment: DISSIO	is Calculate	CU WILLIETN IN FUI POWE	<u> </u>	0.0003905	
	12/104-16/12/10/06/19/6/16 (Felcilloloe/19/6/16)	Emission Comment: Entert	no Color il-t	ad with EDDI TDI For Price	1 ,	0.000300	
	100002 Telegra	Enission Comment: Enission	ns Calculate	ed with EPRITRIFOR POWE		0.01155	
	108883 - Toluene	Full day 0	= 11				
	70040 7:11 # 1	Emission Comment: Emission	ns Calculate	ed with EHRI TRI FOR FOW 6		0.00400	
	79016 - Trichloroethylene						
		Emission Comment: Emission	ns Calculate	ed with EHRITRIFOR Powe	·	T	
	1330207 - Xylenes (isomers and mixture)	<u> </u>	L		1 = , ,	0.00275	
Unit Process ID	Throughput			Operations			
Distillate Oil -	Annual Throughput: 946.44 1000 GALLONS (Diesel) (Input)	Average Hours/Day: 1.7, Days/Week: 5.0, Weeks/Year: 36.0 Actual Hours/Year: 312.4 Seasonal Operations: Dec-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 3			-		
Grades 1 and 2 - Boiler				Seasonal Operations: De		bv: 34.6%	
	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	·		klov: 34.6% Estimated Emis. (Tons)	
	Pollutant O - Carbon Monoxide		Emis. Fac	ttor UOM	c-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N		
		Emis. Factor (Lbs/UOM) Emission Comment: Reporte	Emis. Fac	ttor UOM	c-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Errission Monitoring System	Estimated Emis. (Tons)	
			Emis. Fac	ttor UOM	c-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Errission Monitoring System	Estimated Emis. (Tons) 0.0	
	CO - Carbon Monoxide	Emission Comment: Reporte	Emis. Fac ed on CEVS E3GAL - 1	tor UOM	c-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Emission Monitoring System (CBMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons)	
	CO - Carbon Monoxide	Emission Comment: Reporte	Emis. Fac ed on CEMS E3GAL - 1	tor UOM	c-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Emission Monitoring System (CBMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons) 0.0 1.088406	
	CO - Carbon Monoxide PM10-PRI - PM 10 - Primary (Filterable + Condensible)	Emission Comment: Reporte 2.3 Overall Control Efficiency: 0	Emis. Fac ed on CEMS E3GAL - 1	of or coal process	C-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Emission Monitoring System (CBMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	Estimated Emis. (Tons) 0.0 1.088406 0.733491	
	CO - Carbon Monoxide PM10-PRI - PM 10 - Primary (Filterable + Condensible)	Emission Comment: Reporte 2.3 Overall Control Efficiency: 0 1.55	ed on CEMS E3GAL - 11 .0% E3GAL - 11	of or coal process	C-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Errission Monitoring System (CEMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	Estimated Emis. (Tons) 0.0 1.088406 0.733491	
	CO - Carbon Monoxide PM10-PRI - PM 10 - Primary (Filterable + Condensible) PM25-PRI - PM 2.5 - Primary (Filterable + Condensible)	Emission Comment: Reporte 2.3 Overall Control Efficiency: 0 1.55 Overall Control Efficiency: 0	Emis. Face ed on CEMS E3GAL - 11 .0% E3GAL - 11	of coal process O00 GALLONS O00 GALLONS	C-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Errission Monitoring System (CEMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	Estimated Emis. (Tons) 0.0 1.088406 0.733491	
	CO - Carbon Monoxide PM10-PRI - PM 10 - Primary (Filterable + Condensible) PM25-PRI - PM 2.5 - Primary (Filterable + Condensible)	Emission Comment: Reporte 2.3 Overall Control Efficiency: 0 1.55 Overall Control Efficiency: 0 0.2	Emis. Faced on CEMS E3GAL - 11 .0% E3GAL - 11 .0% E3GAL - 11	of coal process O00 GALLONS O00 GALLONS	C-Feb: 24.1%, Mar-May: 7.8%, Jun-Aug: 33.6%, Sep-N Calculation Method 1_0 - Continuous Errission Monitoring System (CEMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	1.088406 0.733491 0.094644	
	Unit Process ID 49749 Distillate Oil - Grades 1 and 2 -	75092 - Methylene chloride (Dichloromethane) 91203 - Naphthalene 7440020 - Nickel 95476 - o-Xylene 108952 - Phenol 123386 - Propionaldehyde 100425 - Styrene 7664939 - Sulfuric acid (including acid mist expressed as H2SO4) 127184 - Tetrachloroethylene (Perchloroethylene) 108883 - Toluene 79016 - Trichloroethylene 1330207 - Xylenes (isomers and mixture) Unit Process ID Throughput 49749 Distillate Oil - Annual Throughput: 946.44 1000 GALLONS (Diesel) (Input)	75092 - Methylene chloride (Dichloromethane) Emission Comment: Errission 91203 - Naphthalene Emission Comment: Errission 7440020 - Nickel Emission Comment: Errission 95476 - o-Xylene Emission Comment: Errission 108952 - Phenol Emission Comment: Errission 123386 - Propionaldehyde Emission Comment: Errission 100425 - Styrene Emission Comment: Errission 7664939 - Sulfuric acid (including acid mist expressed as H2SO4) Emission Comment: Errission 127184 - Tetrachloroethylene (Perchloroethylene) Emission Comment: Errission 108883 - Toluene Emission Comment: Errission 79016 - Trichloroethylene Emission Comment: Errission 1330207 - Xylenes (isomers and mixture) Emission Comment: Errission Emission Comment: Errission Throughput 49749 Distillate Oi - Annual Throughput: 946,44 1000 GALLONS (Diesel) (Input)	75092 - Methylene chloride (Dichloromethane) Emission Comment: Errissions Calculat 91203 - Naphthalene Emission Comment: Errissions Calculat 7440020 - Nickel Emission Comment: Errissions Calculat 95476 - o-Xylene Emission Comment: Errissions Calculat 108952 - Phenol Emission Comment: Errissions Calculat 123386 - Propionaldehyde Emission Comment: Errissions Calculat 100425 - Styrene Emission Comment: Errissions Calculat 7664939 - Sulfuric acid (including acid mist expressed as H2SO4) Emission Comment: Errissions Calculat 127184 - Tetrachloroethylene (Perchloroethylene) Emission Comment: Errissions Calculat 108833 - Toluene Emission Comment: Errissions Calculat 79016 - Trichloroethylene Emission Comment: Errissions Calculat 1330207 - Xylenes (isomers and mixture) Emission Comment: Errissions Calculat 1330207 - Xylenes (isomers and mixture) Emission Comment: Errissions Calculat Throughput 49749 Distillate Oil - Annual Throughput: 946.44 1000 GALLONS (Diesel) (Input)	Troughput Trou	Total Comment: Emission Comment: Emissions Calculated with EPR TR For Rower Rants Software 10_0 - CK DEQ Approved Method (no EF)	

Emission Unit ID	Unit Process ID	Throughput			Operations		
9954 Bectric Power Generation Boiler Combustion Engineering - Unit NO 2	49750 Subbituminous Coal, Rulverized - Boiler, Dry Bottom Tangential-fired	' Annual Throughput: 1,077,040.0 TONS (Coal) (Input)			Average Hours/Day: 20.2, Days/Week: 5.5, Weeks/Year: 43.0 Actual Hours/Year: 4,783.7 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		∞ - Carbon Monoxide				1_0 - Continuous Emission Monitoring System (CEVS)	594.25
		7439921 - Lead				10_0 - OK DEQ Approved Method (no EF)	0.0063
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Rants Software	
		NOX - Nitrogen Oxides (NOx) expressed as NO2				1_0 - Continuous Emission Monitoring System (CEVS)	1,257.503
		PM10-PRI - PM 10 - Primary (Filterable + Condensible)	0.041	E6BTU - N	VILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	390.4149372
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)	0.036	E6BTU - N	VILLION BTUS	10_3 - OK DEQ Approved Method (no Control EF)	340.2214266
		SO2 - Sulfur Oxides (SOx) expressed as SO2				1_0 - Continuous Emission Monitoring System (CEVS)	294.809
		VOC - Volatile Organic Compounds (VOCs)	0.06	TON-TO	NS .	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	32.3112
			Overall Control Efficiency:	0.0%			•
		121142 - 2,4-Dinitrotoluene				10_0 - OK DEQ Approved Method (no EF)	0.02545
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Pants Software	
		75070 - Acetaldehyde				10_0 - OK DEQ Approved Method (no EF)	0.0283
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Plants Software	•
		98862 - Acetophenone				10_0 - OK DEQ Approved Method (no EF)	0.01885
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Plants Software	•
		107028 - Acrolein				10_0 - OK DEQ Approved Method (no EF)	0.033
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Pants Software	•
		107131 - Acrylonitrile				10_0 - OK DEQ Approved Method (no EF)	0.104
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Pants Software	•
		7440360 - Antimony				10_0 - OK DEQ Approved Method (no EF)	0.002665
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Pants Software	-
		7440382 - Arsenic				10_0 - OK DEQ Approved Method (no EF)	0.00408
			Emission Comment: Emissi	ons Calcula	ted with EPRITRI For Powe	r Pants Software	•
		71432 - Benzene (including benzene fromgasoline)				10_0 - OK DEQ Approved Method (no EF)	0.01885
			Emission Comment: Emissi	ons Calcula	ted with EPRITRI For Powe	r Pants Software	•
		92875 - Benzidine				10_0 - OK DEQ Approved Method (no EF)	0.0264
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	r Pants Software	
		100447 - Benzyl chloride				10_0 - OK DEQ Approved Method (no EF)	0.01795
			Emission Comment: Emissi	ons Calcula	ted with EPRITRI For Powe	r Pants Software	
		7440417 - Beryllium				10_0 - OK DEQ Approved Method (no EF)	0.000445
			Emission Comment: Emissi	ons Calcula	ted with EPRITRIFor Powe	, ,	1
		92524 - Biphenyl				10_0 - OK DEQ Approved Method (no EF)	0.00113
			Emission Comment: Emissi	ons Calcula	ted with EPRITRI For Powe	1 = , ,	1
		117817 - Bis(2-ethylhexyl)phthalate (DEHP)				10 0 - OK DEQ Approved Method (no EF)	0.02645
			Emission Comment: Emissi	ons Calcula	ted with EPRITRI For Powe	= , ,	<u> </u>
		7440439 - Cadmium				10 0 - OK DEQ Approved Method (no EF)	0.001215
			Emission Comment: Emissi	ons Calcula	ted with EPRITRI For Powe		!
			1				

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
75150 - Carbon disulfide			10_0 - OK DEQ Approved Method (no EF)	0.01605
	Emission Comment: Emissi	ions Calculated with EPRITRIF	or Power Plants Software	•
56235 - Carbon tetrachloride			10_0 - OK DEQ Approved Method (no EF)	0.00151
	Emission Comment: Emissi	ions Calculated with EPRITRIF	or Power Plants Software	•
108907 - Chlorobenzene			10_0 - OK DEQ Approved Method (no EF)	0.00132
	Emission Comment: Emissi	ions Calculated with EPRITRIF	or Power Plants Software	· ·
67663 - Chloroform			10_0 - OK DEQ Approved Method (no EF)	0.00151
	Emission Comment: Emissi	ions Calculated with EPRITRIF	or Power Plants Software	· ·
7440473 - Chromium			10 0 - OK DEQ Approved Method (no EF)	0.0145
	Emission Comment: Emissi	ions Calculated with EPRITRIF	or Power Plants Software	1
7440484 - Cobalt			10 0 - OK DEQ Approved Method (no EF)	0.003765
	Emission Comment: Emissi	ions Calculated with EPRITRIF	- : ;	
98828 - Cumene			10 0 - OK DEQ Approved Method (no EF)	0.00104
	Emission Comment: Emissi	ions Calculated with EPRITRIF	,	
132649 - Dibenzofuran			10 0 - OK DEQ Approved Method (no EF)	0.0264
	Emission Comment: Emissi	ions Calculated with EPRITRIF		
84742 - Dibutylphthalate		iono cardiatos mar 2 m m.	10 0 - OK DEQ Approved Method (no EF)	0.0069
	Emission Comment: Emissi			
131113 - Dimethyl phthalate	Emission comment. Emission	loris calculated William 14 man	10 0 - OK DEQ Approved Method (no EF)	0.0085
TOTTIO DITIONITY PRINCIPLE	Emission Comment: Emissi	I ions Calculated with EPRITRIF		0.0000
100414 - Ethyl benzene	Emission comment. Emission	To be calculated with 11 11 11 11 11 11	10 0 - OK DEQ Approved Method (no EF)	0.00132
100414 - Lillyi berizerie	Emission Comment: Errico			0.00132
106934 - Ethylene dibromide (Dibromoethane)	Emission Comment. Emissi	Calculated With Lift 11411	10 0 - OK DEQ Approved Method (no EF)	0.004625
100934 - Enlylene dibromae (Dibrombernane)	Emissian Comment: Exist			0.004623
107000 Phylone dishleride (4.0 Picklereetheree)	Emission Comment: Emissi	IOIS CAICUIALEU WILITERNI IRIT		0.002445
107062 - Ethylene dichloride (1,2-Dichloroethane)			10_0 - OK DEQ Approved Method (no EF)	0.003115
FOOOD Francishing	Emission Comment: Emssi	ions Calculated with EPRI TRI F		0.0005
50000 - Formaldehyde			10_0 - OK DEQ Approved Method (no EF)	0.02925
	Emission Comment: Emissi	ions Calculated with EPRI TRI F		1
110543 - Hexane			10_0 - OK DEQ Approved Method (no EF)	0.02075
	Emission Comment: Emissi	ions Calculated with EPRITRIF		
7647010 - Hydrochloric acid			10_0 - OK DEQ Approved Method (no EF)	0.55
	software. However, since the		or Power Rants Software. Previously a site specific emis al, the stack test was no longer representative. The progr s of HO ~95%.	
7664393 - Hydrogen fluoride (Hydrofluoric acid)			10_0 - OK DEQ Approved Method (no EF)	2.17
	Emission Comment: Emissi	ions Calculated with EPRITRIF	or Power Rants Software	
7439965 - Manganese			10_0 - OK DEQ Approved Method (no EF)	0.02085
	Emission Comment: Emissi	ions Calculated with EPRI TRI F	or Power Plants Software	
7439976 - Mercury			10_0 - OK DEQ Approved Method (no EF)	0.008
	Emission Comment: Emissi	ions Calculated with EPRITRIF	or Power Plants Software	-
71556 - Methyl chloroform (1,1,1-Trichloroethane)			10 0 - OK DEQ Approved Method (no EF)	0.00236
• • • • • • • • • • • • • • • • • • • •	Emission Comment: Emissi	ions Calculated with EPRITRIF	= :: ,	I
74884 - Methyl iodide (Iodomethane)			10_0 - OK DEQ Approved Method (no EF)	0.004055
· · · · · · · · · · · · · · · · · · ·	Fmission Comment: Friesi	I ions Calculated with EPRITRIF		0.00.000
108101 - Wethyl isobutyl ketone (Hexone)	Emission comment. Emissi	S S S S S S S S S S S S S S S S S S S	10_0 - OK DEQ Approved Method (no 🗗)	0.084
100101 Welligh Bobuly Retorie (LEAUTE)	Emission Comment: Exicat			0.00
	Emission Comment: Emssi		UI FUW GI FIANIS SUNWARE	

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		75092 - Methylene chloride (Dichloromethane)				10_0 - OK DEQ Approved Method (no EF)	0.1795	
			Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	r Pants Software	•	
		91203 - Naphthalene				10_0 - OK DEQ Approved Method (no EF)	0.002935	
			Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	r Plants Software	•	
		7440020 - Nickel				10_0 - OK DEQ Approved Method (no EF)	0.01655	
			Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	r Plants Software	•	
		95476 - o-Xylene				10_0 - OK DEQ Approved Method (no EF)	0.001835	
			Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	r Rants Software	l	
		108952 - Phenol				10 0 - OK DEQ Approved Method (no EF)	0.01795	
			Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe	1 = , ,		
		123386 - Propionaldehyde				10 0 - OK DEQ Approved Method (no EF)	0.04715	
			Emission Comment: Emission	ns Calculate	ed with FPRITRI For Powe			
		100425 - Styrene	10_0 - OK DEQ Approved Method (no EF) 0.001225					
			Emission Comment: Emission	ns Calculate	ed with FPRITRI For Powe			
		7664939 - Sulfuric acid (including acid mist expressed as H2SO4)	Emission Comment: Emissions Calculated with EPRI TRI For Power Flants Software 10 0 - OK DEQ Approved Method (no EF) 0.03265					
		700 1000 Call allo dold (illoldding dold That expressed as 1 2004)	Emission Comment: Emissions Calculated with EPRITRI For Power Plants Software				0.00200	
		127184 - Tetrachloroethylene (Perchloroethylene)	Linesion comment. Elissic	i is calculate	SO WILLIAM IN FOI FOWE	10 0 - OK DEQ Approved Method (no EF)	0.00051	
	12/104-161 actiliored liylette (Ferchiored liylette)	Emission Comment: Emission	no Coloulet	ad with EDDI TDI For Price	, ,	0.00001		
		400000 Telegra	Enission Comment: Enssi	ns Calculate	ed with EPRITRIFOR POWE		0.0454	
		108883 - Toluene	Endante Orange et Endante	0-11-4		10_0 - OK DEQ Approved Method (no EF)	0.0151	
			Emission Comment: Emission	ns Calculate	ed with EPRITRIFOR FOW 6		In annuar	
		79016 - Trichloroethylene				10_0 - OK DEQ Approved Method (no EF)	0.002455	
			Emission Comment: Emission	ns Calculate	ed with EPRITRI For Powe		T	
		1330207 - Xylenes (isomers and mixture)				10_0 - OK DEQ Approved Method (no EF)	0.003585	
					ad with EDDITDIE or Daw a			
	•		Emission Comment: Emission			r Hants Software		
	Unit Process ID	Throughput	Emission Comment: Emssion		Operations	r Marius Soriuvaire		
9954 Bectric Power Generation Boiler Combustion Engineering - Unit	Unit Process ID 49751 Distillate Oil - Grades 1 and 2 - Boiler	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input)	Hission Comment: Hission		Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.8	Days/Week: 5.5, Weeks/Year: 43.0	Nov: 28.0%	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	-	Emis. Factor (Lbs/UOM)		Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.6 Seasonal Operations: De	Days/Week: 5.5, Weeks/Year: 43.0	Nov: 28.0% Estimated Emis. (Tons)	
1954 Hectric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input)	Emis. Factor (Lbs/UOM)	Emis. Fac	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.6 Seasonal Operations: De tor UOM	Days/Week: 5.5, Weeks/Year: 43.0 3 c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-		
2954 Electric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant		Emis. Fac	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.6 Seasonal Operations: De tor UOM	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Emission Monitoring System	Estimated Emis. (Tons)	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.6 Seasonal Operations: De tor UOM	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Emission Monitoring System	Estimated Emis. (Tons)	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant CO - Carbon Monoxide	Emis. Factor (Lbs/UOM) Emission Comment: Reporte	Emis. Fac ed on CEMS E3GAL - 1	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.8 Seasonal Operations: De tor UOM for coal process	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Errission Monitoring System (CEVS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons)	
1954 Electric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant CO - Carbon Monoxide	Emis. Factor (Lbs/UOM) Emission Comment: Reported	Emis. Fac ed on CEMS E3GAL - 1	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.8 Seasonal Operations: De tor UOM for coal process	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Errission Monitoring System (CEVS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons) 0.0 1.2309025	
2954 Electric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant CO - Carbon Monoxide PM10-PRI - PM10 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM) Emission Comment: Reporte 2.3 Overall Control Efficiency: 0	Emis. Faced on CEMS E3GAL - 1 0% E3GAL - 1	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.8 Seasonal Operations: De tor UOM for coal process 000 GALLONS	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Errission Monitoring System (CEVS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	Estimated Emis. (Tons) 0.0 1.2309025	
1954 Hectric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant CO - Carbon Monoxide PM10-PRI - PM10 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM) Emission Comment: Reported 2.3 Overall Control Efficiency: 0 1.55	Emis. Fac ed on CEMS E3GAL - 1 0% E3GAL - 1	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.8 Seasonal Operations: De tor UOM for coal process 000 GALLONS	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Errission Monitoring System (CEVS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	Estimated Emis. (Tons) 0.0 1.2309025 0.82952125	
9954 Bectric Power Generation Boiler Combustion Engineering - Unit	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant CO - Carbon Monoxide PM10-PRI - PM10 - Primary (Filterable + Condensible) PM25-PRI - PM2.5 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM) Emission Comment: Reporte 2.3 Overall Control Efficiency: 0 1.55 Overall Control Efficiency: 0	Emis. Face ed on CEMS E3GAL - 1 0% E3GAL - 1	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.8 Seasonal Operations: De tor UOM for coal process 000 GALLONS	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Errission Monitoring System (CEMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	Estimated Emis. (Tons) 0.0 1.2309025 0.82952125	
Emission Unit ID 9954 Bectric Power Generation Boiler Combustion Engineering - Unit NO 2	49751 Distillate Oil - Grades 1 and 2 -	Annual Throughput: 1,070.35 1000 GALLONS (Diesel) (Input) Pollutant CO - Carbon Monoxide PM10-PRI - PM10 - Primary (Filterable + Condensible) PM25-PRI - PM2.5 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM) Emission Comment: Reported 2.3 Overall Control Efficiency: 0 1.55 Overall Control Efficiency: 0 0.2	Emis. Faced on CEMS E3GAL - 1 .0% E3GAL - 1 .0% E3GAL - 1	Operations Average Hours/Day: 2.0, Actual Hours/Year: 468.8 Seasonal Operations: De tor UOM for coal process 000 GALLONS	Days/Week: 5.5, Weeks/Year: 43.0 3c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep- Calculation Method 1_0 - Continuous Errission Monitoring System (CEMS) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF) 8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	Estimated Emis. (Tons) 0.0 1.2309025 0.82952125 0.107034999999999	

Emission Unit ID	Unit Process ID	Throughput			Operations			
9955	40752				Average Hours/Day: 20.2, Days/Week: 5.5, Weeks/Year: 43.0			
Coal Crushing,	49752 Bulk Materials	Annual Throughput: 1,902,448.0 TONS (Coal) (Input)			Actual Hours/Year: 4,783.7			
Screening and Handling	Conveyors - Coal				,	 c-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-	Nov: 28.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)	
	PM10-PRI - PM10 - Primary (Filterable + Condensible)					8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	11.92643743	
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.199561141	
Emission Unit ID	Unit Process ID	Throughput			Operations			
21130 Auxiliary Boiler	119495 Distillate Oil - 10-100 Annual Throughput: 289,289.0 GALLONS (Distillate Oil (No. 2)) (Input)				Average Hours/Day: 6.5, Actual Hours/Year: 1,19	Days/Week: 7.0, Weeks/Year: 26.0 1.7		
Auxilial y Bollei	Million BTU/hr **				Seasonal Operations: De	c-Feb: 63.5%, Mar-May: 12.3%, Jun-Aug: 0.0%, Sep-N	bv: 24.2%	
<u></u>		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)	
		○ - Carbon Monoxide	5.0	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control ⊞)	0.723	
		NOX - Nitrogen Oxides (NOx) expressed as NO2	20.0	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	2.893	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	2.3	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.333	
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)	1.55	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.224	
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.213	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.031	
		VOC - Volatile Organic Compounds (VOCs)	0.28	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.041	
Emission Unit ID	Unit Process ID	Throughput		·	Operations			
42026 Coal Pile	149891 Bulk Materials Open Stockpiles - Coal	Annual Throughput: 31.1 ACRES (Coal) (Input)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 52.0 Actual Hours/Year: 8,760.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	11.2219232	
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	1.21842426	
Emission Unit ID	Unit Process ID	Throughput			Operations			
47367 NO 2 Emergency Generator GM- Detroit Serial NO 73100	156029 Diesel - Large Bore Engine	Annual Throughput: 416.96 GALLONS (Distillate Oil (Diesel)) (Input)			Average Hours/Day: 0.6, Days/Week: 0.7, Weeks/Year: 26.0 Actual Hours/Year: 11.0 Seasonal Operations: Dec-Feb: 30.7%, Mar-May: 15.3%, Jun-Aug: 21.9%, Sep-Nov: 32.1%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)	
		∞ - Carbon Mbnoxide	116.45	E3GAL - 1	1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.024	
			Overall Control Efficiency:	0.0%				
		NOX - Nitrogen Oxides (NOx) expressed as NO2	438.4	E3GAL - 1	1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.091	
			Overall Control Efficiency:	0.0%				
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	7.8501	E3GAL - 1	1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002	
			Overall Control Efficiency:					
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135	HP-HR-H	ORSEPOWER-HOURS		0.0	
		VOC - Volatile Organic Compounds (VOCs)	12.33	E3GAL - 1	1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002	
	Overall Control Efficiency: 0.0%				· ·			

Emission Unit ID	Unit Process ID	Throughput			Operations			
47471 Emergency Diesel Fire Pump Qummins VT1710F Serial 44932	156118 Diesel - Large Bore Engine	Annual Throughput: 173.99 GALLONS (Diesel) (Input)		Average Hours/Day: 1.9, Days/Week: 0.1, Weeks/Year: 26.0 Actual Hours/Year: 4.9 Seasonal Operations: Dec-Feb: 10.2%, Mar-May: 8.2%, Jun-Aug: 69.4%, Sep-Nov: 12.2%				
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide	116.0	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.01	
		NOX - Nitrogen Oxides (NOx) expressed as NO2	438.0	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.038	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)	7.85	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control 目)	0.001	
		SO2 - Sulfur Oxides (SOx) expressed as SO2	0.000012135	HP-HR-H	ORSEPOWER-HOURS	10_3 - OK DEQ Approved Method (no Control 目)	0.0	
		VOC - Volatile Organic Compounds (VOCs)	11.5	E3GAL - 1	1000 GALLONS	10_3 - OK DEQ Approved Method (no Control EF)	0.001	
Emission Unit ID	Unit Process ID	Throughput	•		Operations			
50942 Generac Model QT025A	160549 Liquified Petroleum Gas (LPG) - Propane: Reciprocating	Annual Throughput: 113.71 GALLONS (Liquified Petroleum Gas (LPG)) (Input)			Average Hours/Day: 2.1, Days/Week: 0.5, Weeks/Year: 26.0 Actual Hours/Year: 27.4 Seasonal Operations: Dec-Feb: 29.6%, Mar-May: 5.8%, Jun-Aug: 24.5%, Sep-Nov: 40.1%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide	0.189994152	HP-HR-H	ORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approva (no Control EF)	0.112	
		NOX - Ntrogen Oxides (NOx) expressed as NO2	0.009656236	HP-HR-H	HORSEPOWER-HOURS 7_0 - Manufacturer Test Data with OK DEQ Approval (no Control EF)			
		VOC - Volatile Organic Compounds (VOCs)	0.003152607	HP-HR-H	ORSEPOWER-HOURS	7_0 - Manufacturer Test Data with OK DEQ Approva (no Control EF)	0.002	
Emission Unit ID	Unit Process ID	Throughput			Operations			
138766 Activated Carbon Handling Equiptment	259565 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 343.89576 TONS (Material) (Input)			Average Hours/Day: 1.4, Days/Week: 1.0, Weeks/Year: 26.0 Actual Hours/Year: 36.0 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.002854286	
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.002854286	
Emission Unit ID	Unit Process ID	Throughput			Operations			
138775 Activated Carbon Handling Road Travel	259604 Bulk Materials Unloading Operation - Chemical: Specify in Comments	Annual Throughput: 96.95454545 MLES (Material) (Input)			Average Hours/Day: 0.5, Days/Week: 0.5, Weeks/Year: 26.0 Actual Hours/Year: 6.5 Seasonal Operations: Dec-Feb: 24.7%, Mar-May: 20.6%, Jun-Aug: 26.6%, Sep-Nov: 28.0%			
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.00090257	
Emission Unit ID	Unit Process ID	Throughput			Operations			
205940 New Emergency Generator 1 - Caterpillar C15	334361 New Emergency Generator 1 - Caterpillar C15	Annual Throughput: 361.41 GALLONS (Distillate Oil (Diesel)) (Input)			Average Hours/Day: 0.6, Days/Week: 0.6, Weeks/Year: 26.0 Actual Hours/Year: 9.5 Seasonal Operations: Dec-Feb: 10.5%, Mar-May: 21.1%, Jun-Aug: 34.7%, Sep-Nov: 33.7%			

Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)			
CO - Carbon Monoxide	116.45	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.002121777			
	Overall Control Efficiency:	0.0%	·				
NOX - Nitrogen Oxides (NOx) expressed as NO2	438.4	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.007987867			
	Overall Control Efficiency:	Overall Control Efficiency: 0.0%					
PM10-PRI - PM10 - Primary (Filterable + Condensible)	7.8501	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.000143033			
	Overall Control Efficiency:	Overall Control Efficiency: 0.0%					
VOC - Volatile Organic Compounds (VOCs)	12.33	E3GAL - 1000 GALLONS	8_3 - US EPA Documents incl. AP-42 & WebFIRE (no Control EF)	0.000224659			
	Overall Control Efficiency: 0.0%						